

### Energy Watch Partnership Program Overview

Energy Watch is a partnership amongst the County of San Luis Obispo (County), Pacific Gas and Electric Company (PG&E), Southern California Gas Company (SoCal Gas), and participating Cities and Community Service Districts (CSD). Energy Watch is a comprehensive program that provides information and energy management service to targeted customers regarding energy use and cost associated with facilities and infrastructure. This information is used to identify, finance, and implement energy and cost savings energy efficiency measures, as well as track building performance. Energy Watch also assists with the monitoring and implementation of the County's EnergyWise Plan, which was adopted by the Board of Supervisors in November 2011 and aims to reduce greenhouse gas emissions in accordance with state mandates.

The mission of the Energy Watch Partnership is to reduce energy use, demand, and cost, and decrease greenhouse gas emissions in San Luis Obispo County. The Energy Watch Partnership's vision is to be the primary and trusted resource promoting the wise use of energy in San Luis Obispo County. The Energy Watch Partnership is funded by California utility ratepayers under the auspices of the California Public Utilities Commission and administered through PG&E and SoCal Gas.

#### 2015 Program Cycle

Building off of the 2013 - 14 program cycle, the Energy Watch Partnership implemented the following programs in the 2015 program cycle:

***Community Service Districts Energy Management Program:*** Through this program, Energy Watch staff is working closely with Community Service District (CSD) staff to inventory and benchmark the energy use and cost of building facilities and utility infrastructure and to develop customized facility energy action plans. Utilizing detailed information from comprehensive energy assessments, Energy Watch is working with the CSDs select, finance, and implement projects that improve operations and reduce energy costs, use, and lower GHG emissions. Once projects are implemented, Energy Watch will continue to monitor CSD energy use and costs and track building performance over time.

In late 2014, Energy Watch engaged PG&E and KW Engineering to offer the Large Integrated Audit (LIA) program to nine special districts in the county. LIA is a free, comprehensive energy assessment service normally limited to very large industrial or commercial customers. The goal of LIA is to identify energy efficiency, generation, load management, and demand response opportunities that will save energy, reduce costs, and improve operations. Beginning in early 2015, energy assessments of building facilities and water/wastewater infrastructure were conducted at each of the participating special districts. The results of the assessments were presented in Fall 2015 and the special districts now have the most comprehensive assessment and understanding of their energy use, cost, and demand to date. The final LIA reports include prioritized and pre-engineered recommendations that provide special districts with a roadmap for how to reduce energy use and GHG emissions, and improve operations. In 2016, Energy Watch will continue working with participating special districts to select, finance, and implement projects. In aggregate, the LIA initiative could potentially result in annual savings of \$1 million, 1,115 kilowatts (kW), and 4.6 million kilowatt hours (kWh), and a reduction of 1,325 metric tons of carbon dioxide equivalent (MTCO<sub>2</sub>e).

***County Facilities Energy Management Program:*** Through this program, Energy Watch staff is working closely with several County departments to create a comprehensive and verified inventory and database for all of the County's facilities and utility infrastructure. The database information will enable Energy Watch to identify and track cost/energy saving opportunities, audit high energy cost/use buildings and infrastructure, and provide technical, financial, and project management support that helps build and install energy efficiency projects and equipment.

## Attachment 6 - Energy Watch Partnership Program Overview

Energy Watch staff are also working closely with PG&E to optimize the County's electricity rates and are in the process of a comprehensive rate change that will save the County as much as \$110,000 annually.

In coordination with General Services/Public Works, Energy Watch is also facilitating the County's participation in PG&E's Sustainable Solutions Turnkey (SST) program. SST is a design-build energy efficiency retrofit project that leverages public-private partnerships to streamline implementation of energy efficiency projects using money saved from energy and operational efficiency. Following multiple detailed assessments, eight different energy conservation measures will be implemented at multiple County facilities. Implementation will begin in 2016 and result in savings of 201 kW; 1,592,024 kWh; 9,862 therms; 686.8 MTCO<sub>2e</sub>; and \$334,473 of annual energy and operational savings. This represents a 6.1% reduction in energy costs, a 5.6% reduction in energy use, and a 10.7% reduction in greenhouse gas emission from 2013 levels. The total project cost of \$4,527,159 will be repaid with energy cost savings in 13.3 years. SST represents the single largest energy efficiency retrofit project in the history of the County, and positions the County as one of a select few counties in California to initiate an SST project.

***Climate Services Program:*** Through this program, Energy Watch staff supports and coordinates the County's implementation of measures identified in the County's EnergyWise Plan. Furthermore, staff provides a detailed tracking and reporting of the County's progress towards its goals of reducing energy use from County facilities by 20% and overall greenhouse gas emissions by 15% from baseline levels (2006) by 2020 through monitoring of the implementation measures. Looking forward, Energy Watch staff will also provide services and technical assistance to help all municipalities in San Luis Obispo County to implement their greenhouse gas reduction measures, and track and report progress toward their goals.

***Commercial Direct Install Program:*** To implement this program, Energy Watch and its third-party implementer, Staples Energy, conduct energy efficiency retrofits for small-to-medium businesses and provide incentive levels to customers with higher incentive levels than offered elsewhere. The program provides commercial customers with a full service offering that includes free energy audits and reports, equipment installation, rebate processing, and quality assurance. In 2015, the Direct Install program will result in savings of almost 225 kW and 1.3 million kWh. Similar savings are projected for 2016 and beyond.

### 2016 Program Cycle

In addition to continued implementation of all of the programs above, the Energy Watch Partnership will develop and implement a new program in 2016 described below:

***Municipal Energy Management Program:*** Through this program, Energy Watch staff will re-engage city staff to inventory and benchmark their energy use and cost of building facilities and utility infrastructure and to develop customized energy action plans. Similar to our CSD program, Energy Watch will coordinate free and comprehensive energy assessments and use the information therein to help Cities select, finance, and implement projects that improve operations and reduce energy costs, use, and lower GHG emissions. Once projects are implemented, Energy Watch will continue to monitor Cities energy use and costs and track building performance over time.